



Histologic Basis of Mouse Endocrine System Development: A Comparative Analysis (Research Methods For Mutant Mice)

By Matthew Kaufman, Alexander Yu. Nikitin, John P. Sundberg

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The world's leading expert on mouse embryology, Dr. Matthew Kaufman is responsible for producing classic texts that are considered the most respected in the field. While the quality of their photowork at the time was considered state-of-the-art, the technology available when the books were produced limited the original printed pages to black-and-white photomicrographs and line diagrams, which are too small and not detailed enough to meet the requirements of today's mouse pathologists who demand high resolution, high detailed full color slides.

Meeting this need and going beyond, **Histologic Basis of Mouse Endocrine System Development: A Comparative Analysis** not only offers upgraded slides but actually turns your computer into a virtual microscope that researchers from just a few short years ago could have only dreamt about.

Working in conjunction with Dr. Nikitin and Dr. Sundberg, Dr. Kaufman has scanned the finest images from his previous collections and then using modern graphic technology has elevated the quality to levels not seen before. By installing the ImageScope™ software (Aperio Technologies, Inc.) and graphics from the accompanying DVD, readers will be able to turn their computers into

virtual microscopes. Operating their computers like cutting-edge diagnostic tools, they can move the image from the glass microscope across the screen and enlarge areas of interest for more detailed evaluation. This tool allows them to look at specific organs or structures at various magnifications at different stages of embryogenesis, helping to identify structures in normal mouse embryos and providing a comparison for those embryos under investigation.

While the emphasis of this one-of-a-kind book is on comparative embryology of the endocrine organs, the embryonic images at various developmental stages contain many other organs. It provides a series of representative figures that display the histological features of hematoxylin- and eosin-stained sections of the various endocrine organs at sequential stages of their development in the mouse.

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Editorial Review

Review

"...an excellent tool for the research lab and demonstrates the ability to enhance and utilize hematoxylin and eosin-stained (H&E) , sections of mouse embryogenesis from Dr. Kaufman's original research and improve through modern technology to further augment their usefulness. The ability of the reader to use his computer as a virtual microscope to enlarge, move, and investigate areas of interest on the specially digitized H&E slides of normal mouse embryogenesis on the accompanying DVD allow the researcher to analyze and compare endocrine development across species in addition to the well-labeled photomicrographs in the text itself and comparative dialogue. The advanced technology of enhancing key histological specimens lends excitement to this and other future textbooks."

?Sandra L. Jex, DVM, in *ALNMAG*, April 2011,

"*Histologic Basis of Mouse Endocrine System Development* nicely complements Kaufman's previous volumes on mouse development. It is an excellent reference for investigators specializing in the fields of embryology and endocrinology. It is also a useful reference for illustrating what is normal in tissues of variously aged mouse embryos. Therefore, it is useful for pathologists and other investigators wanting to evaluate histologic sections of mouse embryos for other purposes as well."

?*Journal of the American Association for Laboratory Animal Science*, January 2011

About the Author

Matthew Kaufman, University of Edinburgh, Scotland

Alexander Yu. Nikitin, Cornell University, Ithaca, New York, USA

John P. Sundberg, The Jackson Laboratory, Bar Harbor, Maine, USA

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